

Title (en)
DISPLAY DEVICE

Title (de)
ANZEIGEVORRICHTUNG

Title (fr)
DISPOSITIF D'AFFICHAGE

Publication
EP 2395496 A4 20120919 (EN)

Application
EP 10738339 A 20100202

Priority
• JP 2010000615 W 20100202
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Abstract (en)
[origin: EP2395496A1] A direct-viewing type display device 100A includes: a display panel which has a display region 10A and a frame region 10F provided outside the display region; and a light-transmitting cover 20 provided on a viewer's side of the display panel. The light-transmitting cover includes a lens portion 22 positioned so as to overlap a region that includes part of the frame region of the display panel and part of a peripheral display region 10D within the display region which adjoins the part of the frame region. The display device further includes a housing 30 which has a housing portion 36 provided at least on a side surface 10b of the display panel. Part of light going out from the part of the peripheral display region and/or part of light entering the housing portion on a rear side goes out on a viewer's side of the housing portion 36. According to the present invention, a direct-viewing type display device is provided which includes a sole display panel and in which the frame is visually obscured.

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G02F 1/1335 (2006.01)

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Citation (search report)
• [X] EP 0680067 A2 19951102 - MATSUSHITA ELECTRONICS CORP [JP]
• [X] US 2006001796 A1 20060105 - CHANG YOUN G [KR], et al
• See references of WO 2010089998A1

Citation (examination)
• US 2004051944 A1 20040318 - STARK BERNARD HARRY [GB]
• DE 202006017277 U1 20070118 - ELEMENT DISPLAYS DR WIEMER GMB [DE]

Cited by
CN104871078A; KR20150096527A; EP2869101A1; EP2806307A1; EP2813923A4; US9709783B2; US9063359B2; US9955602B2; WO2013114162A1; WO2014096199A1; US8994042B2; US9123593B2; US9366929B2; US9632381B2; EP2936243B1

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